

## PATENT ABSTRACTS OF JAPAN

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(71)Applicant : DAINIPPON PRINTING CO LTD

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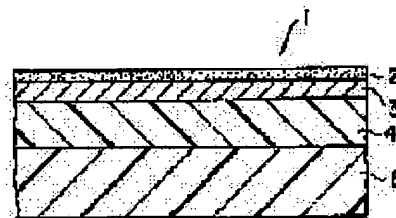
(72)Inventor : WATANABE KAORU

## (54) PACKAGING MATERIAL FOR CONTRACEPTIVE MEANS

## (57)Abstract:

PURPOSE: To improve the adaptability to machines at the time of automatically inserting the packaging material in the state of having a cutting property into a box.

CONSTITUTION: The packaging material 1 is constituted by laminating a primer layer 2, aluminum foil 3, a high-density polyethylene film 4 and a sealant layer 5 in this order. This packaging material has the cutting property similar to the cutting property of the conventional packaging materials and obviates a change in the slipperiness on the aluminum foil 3 on the front side having the primer layer 2 by the influence of humidity and, therefore, the generation of troubles is prevented at the time of automatically inserting the bag packaging the contraceptive means into the box.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

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**CLAIMS**

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[Claim(s)]

[Claim 1] The packing material for contraceptives characterized by carrying out the laminating of a primer layer, aluminum foil, a high density polyethylene film, and the sealant layer in this order.

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## DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention relates to the packing material used for packing a contraceptive.

[0002]

[Description of the Prior Art] Generally the compound packing material 11 as shown in drawing 2 is used as a packing material for packing a contraceptive conventionally. This packing material 11 comes to carry out the laminating of cellophane 12, a polyethylene film 13, aluminum foil 14, and the polyethylene film 15 to order from an outside, it is faced packing a contraceptive, and by making a polyethylene film 15 side into the inner sense, where a contraceptive is contained for this a two-sheet pile and in it, it is heat sealing the perimeter four way type.

[0003]

[Problem(s) to be Solved by the Invention] Although it had the advantage of excelling in cut nature by the cellophane in that lamination, since the above-mentioned conventional packing material was using cellophane without dampproofing for the outermost layer, when carrying out automatic insertion of the bag with which this cellophane packed the contraceptive since that skid nature changed in response to the effect of humidity to a box, it had the trouble of being easy to generate a trouble.

[0004] This invention is made in view of the above troubles, and the place made into the purpose is to offer the packing material for contraceptives excellent in machine fitness while having cut nature.

[0005]

[Means for Solving the Problem] In order to attain the above-mentioned purpose, the packing material for contraceptives of this invention is characterized by carrying out the laminating of a primer layer, aluminum foil, a high density polyethylene film, and the sealant layer in this order.

[0006]

[Function] Since the aluminum foil which has a primer layer serves as the outermost layer, the packing material for contraceptives which consists of the above-mentioned configuration is slippery under the effect of humidity, and a sex does not change. Moreover, since the laminating of the directive high density polyethylene film is carried out, it is torn easily.

[0007]

[Example] Drawing 1 is the sectional view showing an example of the packing material for contraceptives concerning this invention. As shown in this drawing, the packing material 1 is carrying out the configuration to which the laminating of the primer layer 2, aluminum foil 3, the high density polyethylene film 4, and the sealant layer 5 was carried out in this order.

[0008] The above-mentioned packing material 1 is created by sticking the aluminum foil 3 with a thickness of 9 micrometers which applied the primer layer 2, and the high density polyethylene film 4 with a thickness of 22 micrometers which carried out the laminating of the ethylene-vinylacetate copolymer film (sealant layer 5) with a thickness of 32 micrometers to one side by the dry laminate method. Here, RUPIKKU-U (Tonen Chemical make) was used as a high density polyethylene film 4. In addition, the primer layer 2 achieves the duty which forms a corrosion-resistant coat in the front face of

aluminum foil 3, and protects aluminum foil 3. Moreover, as a sealant layer 5, the thermoplastics other than an ethylene-vinylacetate copolymer, such as a polyethylene and ethylene-acrylic-acid copolymer, may be used just possible [ heat sealing ].

[0009] It faces packing a contraceptive by the packing material 1, and where it piled up two of these and a contraceptive is put into it like the conventional package gestalt, a perimeter four way type is heat sealed. Here, although the above-mentioned RUPIKKU-U adopted as a high density polyethylene film 4 carries out biaxial extension and is created, since one of the two is extended strongly and is in uniaxial stretching, that it is easy to go out, in the weak direction, it is hard to go out, and it has become in the strong direction of extension in it. Therefore, in this example, as shown in drawing 3, Giza 6 was established in the side which intersects perpendicularly with the weak direction of extension, and it considered as the cause when cutting. Thereby, it can cut now easily from every side. What is necessary is just to omit the direction which intersects perpendicularly with flow direction A, where Giza 6 is put in while a slitting machine 7 cuts flow direction A in the shape of a straight line as shown in drawing 4 when cutting the packing material [ finishing / a seal ] 1 according to an individual, in order to form this Giza 6.

[0010] Thus, since the aluminum foil 3 which has the primer layer 2 is a table and the slipping nature does not change in response to the effect of humidity, the created package bag does not generate a trouble at the time of automatic insertion in a box. Moreover, if it is at the time of use of a contraceptive, from every direction, a package bag can be torn easily and can be opened.

[0011]

[Effect of the Invention] As explained above, the packing material for contraceptives of this invention can prevent generating of the trouble in packaging machinery, when carrying out automatic insertion of the bag which packed the contraceptive to a box, since the laminating of a primer layer, aluminum foil, a high density polyethylene film, and the sealant layer is carried out in this order, and the aluminum foil on the side front which has a primer layer is slippery under the effect of humidity and does not produce change to a sex, while having the same cut nature as the conventional thing.

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PRIOR ART

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**EFFECT OF THE INVENTION**

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**TECHNICAL PROBLEM**

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**MEANS**

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EXAMPLE

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DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]

[Drawing 1] one example of the packing material for contraceptives concerning this invention is shown - it is a sectional view a part.

[Drawing 2] an example of the conventional packing material for contraceptives is shown -- it is a sectional view a part.

[Drawing 3] It is the top view showing the bag which packed the contraceptive.

[Drawing 4] It is the explanatory view showing how to cut into each package bag.

[Description of Notations]

1 Packing Material for Contraceptives

2 Primer Layer

3 Aluminum Foil

4 High Density Polyethylene Film

5 Sealant Layer

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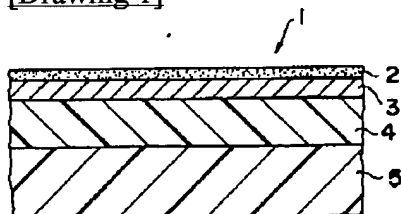
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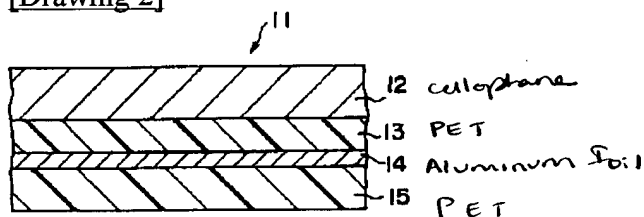
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## DRAWINGS

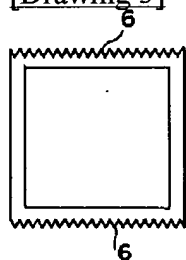
[Drawing 1]



[Drawing 2]



[Drawing 3]



[Drawing 4]

